

87

Notice of Allowability

Application No.

09/597,478

Examiner

Chat C. Do

Applicant(s)

BERA, RAJENDRA KUMAR

Art Unit

2193

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 04/05/2005.
2. ☒ The allowed claim(s) is/are 1-9.
3. ☒ The drawings filed on 20 April 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date herein.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


TODD INBERG
PRIMARY EXAMINER

EXAMINER'S AMENDMENT

1. Claims 1-9 are allowed.
2. Claims 10-14 are cancelled.
3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Anthony V.S England on 04/26/2005.

The specification page 5 lines 18-32 has been amended as follows:

Typically, the application program of the preferred embodiment is resident on the hard disk drive 110, and read and controlled in its execution by the processor 105. Intermediate storage of the program may be accomplished using the semiconductor memory 106, possibly in concert with the hard disk drive 110. In some instances, the application program may be supplied to the user encoded on a CD-ROM or floppy disk and read via a CD-ROM drive (not illustrated) or floppy disk drive 111, or alternatively, in a case where the program is stored on tangible media connected to the network, may be read by the user from the

tangible media on the network (not illustrated) via transmission by the modem device (not illustrated) or via transmission by a radio or infra-red transmission channel. The transmission may also include e-mail transmission. Still further, the software can also be loaded into the computer system 100 from other computer readable medium including magnetic tape, a ROM or integrated circuit, a magneto-optical disk, ~~a radio or infra-red transmission channel between the computer module 101 and another device, or~~ a computer readable card such as a PCMCIA card, ~~and the Internet and Intranets including e-mail transmissions and information recorded on websites and the like~~. The foregoing is merely exemplary of relevant computer readable mediums. Other computer readable medium may be practiced without departing from the scope and spirit of the invention.

4. The following is an examiner's statement of reasons for allowance:

The prior art of records fails to disclose or render an obviousness of a computer implemented method in a simulation of a physical system by a set of linear algebraic equations comprising: iteratively eliminating unknowns from the set of linear algebraic equations including sub-steps for each of the equations with a arranging expressions of such an equation resulting in a form <unitary operation><operand><operand><operand>...<operand><operand> wherein the unitary operator is either + or -, and each operand is one of +, -, or * including inserted a unitary in front of the expression if an expression does not already

commence the unitary operator and to determine if the products match without determining numerical values for the unknowns and without performing a matrix inversion as cited in independent claims 1, 4, and 7.

The closest found prior arts are Press et al. ("Numerical Recipes in FORTRAN"), Stoer et al. ("Introduction to Numerical Analysis"), and Hayami et al. (U.S. 5,200,915). Press et al. in view of Stoer et al. in further view of Hayami et al. disclose a computer implemented method in a simulation of a physical system by a set of linear algebraic equations comprising: iteratively eliminating unknowns from the set of linear algebraic equations including sub-steps for each of the equations and determine if the products match without determining numerical values for the unknowns and without performing a matrix inversion. However, Press et al. in view of Stoer et al. in further view of Hayami et al. fail to disclose a sub-steps of arranging expressions of the equation resulting in a form $\langle \text{unitary operation} \rangle \langle \text{operand} \rangle \langle \text{operand} \rangle \langle \text{operand} \rangle \dots \langle \text{operand} \rangle \langle \text{operand} \rangle$ wherein the unitary operator is either + or -, and each operand is one of +, -, or * including inserted a unitary in front of the expression if an expression does not already commence the unitary operator as cited in the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

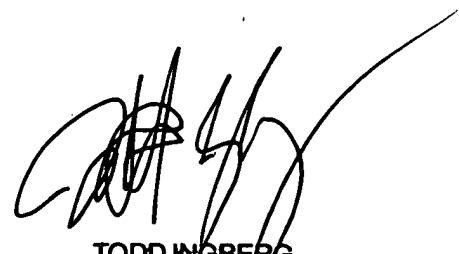
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chat C. Do whose telephone number is (571) 272-3721. The examiner can normally be reached on 7:00AM to 5:00PM M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chaki Kakali can be reached on (571) 272-3719. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chat C Do
Examiner
Art Unit 2193

April 27, 2005



TODD INGBERG
PRIMARY EXAMINER